



FTR4 WEAR-FREE MULTITURN ABSOLUTE ROTARY SENSOR



Designed for harsh applications with effective design. Innovative solution 100% wear free. Suitable for functional safety applications.



FTR4 is an innovative solution to deliver an absolute multiturn rotary angle with a 100% contactless and wear-free industrialization.

Such design minimizes several threats related to installation and long term product life.







KEY VALUES



Shock proof



Magnetic technology



CAN open Digital Out



IP68 and IP69K protection class



Wide temperature range



Absolute multiturn

Description

P/N

FTR4 dual

1110600

Default Parameters:

360° full scale

CANopen 406 profile

ID node No.1: 0x1F

ID node No.2: 0x1E (Redundant only)

Baud rate 125kbps



APPLICATIONS





Material Handling and Lifting Technology





Construction Equipment



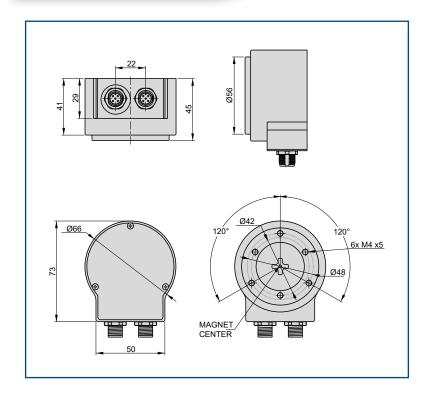


TECHNICAL DATA

	0000 (1)					
Measurement Range	360° continuous multiturns					
Supply voltage	+9+36Vdc					
Output signals	CANopen DS406 profile					
Electrical connections	M12 connector or cable output					
Resolution and diagnostic	Single turn (CANopen): up to 12 bit programmable Multiturn (CANopen): up to 28 bits (65535 turns scalable)					
Indipendent linearity	<±1% FS on single turn (equivalent to <±1/N% FS on N turns)					
Working temperature and coefficient	-40°C+85°C with drift < 50 ppm/°C					
Vibrations	20g between 10 Hz2000 Hz IEC 60068-2-6					
Shock	Pulse on 3 axes; 50g 11 ms IEC 60068-2-27					
Electromagnetic compatibility	EN 61000-4-2 Electrostatic discharge (ESD) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields 30 V/m EN 61000-4-4 Electrical fast transients (burst) 1 kV EN 61000-4-6 Conducted disturbances, RF-fields 10 Veff. EN 55016-2-3 Radiated disturbances					
IP Protection Level	IP66, IP68 and IP69K					
Housing body	Aluminium anodized black					

All performance data are values resulting from qualification tests on specific configuration sample production batch. Final product configuration, actual application and respect of installation recommendation may impact on some performance data. Where not differently indicated, data refer to Tamb condition test environment.

DIMENSIONS

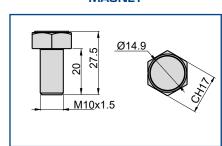


CONNECTOR

N PIN	CANbus
1	CAN-S
2	+VIN
3	GND
4	CAN-H
5	CAN-L



MAGNET







ORDERING KEY

FAMILY	SUBFAMILY	CASE MATERIAL	CONNECTOR	CHANNEL 1 RANGE (±)	CHANNEL 2 RANGE (±) AND VERSE	SUPPLY VOLTAGE	OUTPUT TYPE	SPECIAL/CUSTOM FEATURE/SW/CUSTOMER	MANUAL ZERO HALL PEN	FACTORY LINEARITY TABLE SUPPLIED	ACCESSORIES / MAGNET TYPE	PROJECT REVISION
ROTATIVE	4 Multiturn absolute contactless	A Aluminium	MM double M12 male + male wall mounted	C016 counter clock wise 16bits multiturn	C016 crossed multiturn 16bits	H 12-24Vdc nominal	051 CANopen standard	000 standard	not available (standard)	onot supplied (standard)	002 M10 Screw 1,5mm Pitch Thread	1
			5M single M12 5P wall mounted									

EXAMPLE OF RESULTING ORDERING CODE

FTR4.A.MM.C016.C016.H.051.000.0.0.002.1

Further possibilities available, some options are mutually exclusive, please contact our team for more details.

EXAMPLE OF APPLICATION

